

Title (en)

Method for adjusting amplification efficiency of target polynucleotide

Title (de)

Verfahren zur Einstellung der Verstärkungseffizienz eines Target-Polynukleotids

Title (fr)

Procédé pour le réglage de l'efficacité d'amplification de polynucléotides cibles

Publication

EP 2383348 B1 20150304 (EN)

Application

EP 11164215 A 20110428

Priority

JP 2010105188 A 20100430

Abstract (en)

[origin: EP2383348A1] Disclosed is a method for adjusting the amplification efficiency of a target polynucleotide in the amplification of the target polynucleotide by PCR using primers (i) to (iii) below, the method comprising adjusting the amplification efficiency of the target polynucleotide by changing the quantity ratio of the primers (i) to (iii) below: (i) a first primer which is able to be base-paired with the target polynucleotide; (ii) a second primer which is able to be base-paired with the target polynucleotide in competition with the first primer and from which an extension reaction by PCR occurs to a lesser extent as compared to the first primer; and (iii) a third primer designed to allow for the amplification of the target polynucleotide in pairs with the first primer.

IPC 8 full level

C12Q 1/68 (2006.01); **C12N 15/09** (2006.01)

CPC (source: EP KR)

C12Q 1/6848 (2013.01 - EP KR); **C12Q 1/6853** (2013.01 - KR); **C12Q 1/6858** (2013.01 - EP KR)

Citation (examination)

- MYAKISHEV M V ET AL: "High-throughput SNP genotyping by allele-specific PCR with universal energy-transfer-labeled primers", GENOME RESEARCH, COLD SPRING HARBOR LABORATORY PRESS, WOODBURY, NY, US, vol. 11, no. 1, 1 January 2001 (2001-01-01), pages 163 - 169, XP002242292, ISSN: 1088-9051, DOI: 10.1101/GR.157901
- KRISTIE NYBO: "DNA and General PCR Methods: Allele-specific PCR", BIOTECHNIQUES, vol. 48, no. 2, 1 February 2010 (2010-02-01), pages 101 - 103, XP055075244, ISSN: 0736-6205, DOI: 10.2144/000113361

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2383348 A1 20111102; **EP 2383348 B1 20150304**; CN 102234691 A 20111109; CN 102234691 B 20160831; JP 2011244816 A 20111208; JP 5830268 B2 20151209; KR 101747090 B1 20170614; KR 20110121574 A 20111107

DOCDB simple family (application)

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